



Pines of the Janiculum

by Arya Akhavan (November 2012)

Angles for R.I. = 1.540

65 + 12 girdles = 77 facets

4-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.295 U/W = 0.295

P/W = 0.475 C/W = 0.259

Vol./W³ = 0.279

PAVILION

P1	43.00°	12-36-60-84	Cut to centerpoint.
P2	44.79°	02-22-26-46- 50-70-74-94	Meet at culet.
G1	90.00°	02-22-26-46- 50-70-74-94	Set stone size.
G2	90.00°	12-36-60-84	Level girdle.
P3	43.00°	03-21-27-45- 51-69-75-93	Meet P1, P2, G1, G2

CROWN

C1	70.62°	02-22-26-46- 50-70-74-94	Set girdle width.
C2	46.78°	12-36-60-84	Level girdle.
C3	40.00°	07-17-31-41- 55-65-79-89	Meet G1, G2, C1, C2
C4	30.70°	04-20-28-44- 52-68-76-92	Meet C1, C3
C5	27.69°	12-36-60-84	Meet C2, C3
C6	21.88°	06-18-30-42- 54-66-78-90	Meet C3, C4, C5
C7	12.26°	12-36-60-84	Meet C5, C6
T	0.00°	Table	Meet C6, C7

This is yet another design from a brief period when I was experimenting with checkerboards and lots of straight lines. It's got great light return and a very interesting, high-contrast reflection pattern. The pavilion is fast and easy to cut, and the crown isn't particularly difficult either. Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but looks best in the 1.70 to 1.95 range.

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